

CLAIMS:

1. A portable electronic device (1) arranged to be brought into a contact with an individual's skin when being used by said individual, said device comprising a first contact surface (6) and a second contact surface (6'), wherein the first contact surface comprises a first electrode (8) and the second contact surface comprises a second electrode (8'), said first
5 electrode being electrically isolated from said second electrode; the device further comprising means for measuring an electrical signal (10) from said first electrode and said second electrode during the usage of said device, said electrical signal being representative of a physiological condition of said individual.
- 10 2. A device according to claim 1, wherein said device further comprises analysis means (20) arranged to perform an analysis of said electrical signal (M) in order to derive a health-related parameter (15).
3. A device according to claim 2, wherein said device further comprises a user
15 interface (18) connectable to said analysis means (20), said user interface being arranged to present said health-related parameter to the individual.
4. A device according to claim 3, wherein said device further comprises
20 transmission means (16) arranged to forward said health-related parameter to a remotely arranged unit.
5. A device according to any one of the preceding claims, wherein said device is arranged to measure an electrical signal generated by cardiac activity.
- 25 6. A device according to claim 5, wherein said device is an electric shaver (25), the first contact surface (26) comprising a front surface of a shaving head (26a, 26b, 26c), the second contact surface (28') comprising a grip portion (28) of the shaver.

7. A device according to claim 5, whereon said device is an electric shaver (25) comprising a plurality of shaving heads (26a, 26b, 26c), the first contact surface comprising a first electrode (26a), the second contact surface comprising a second electrode (26b), the electrical shaver further comprising a grip portion (28), said portion being arranged to
5 comprise a further electrode (29) conceived to provide a reference signal.

8. A device according to claim 5, wherein said device is an electric toothbrush (40), the first contact surface comprising a brush head (41), the second contact surface comprising a grip portion (42) of the toothbrush.

10 9. A device according to claim 5, wherein said device is a telephone handset (50), the first contact surface comprising a housing area (51) of the telephone handset, said area being arranged in a direct vicinity of an earpiece (53), the second contact surface comprising a grip portion (52) of the telephone handset (50).

15 10. A device according to claim 9, wherein said telephone handset is a mobile telephone handset (50), the first contact surface comprising a keypad (51'), the second contact surface comprising a grip portion (52) of the mobile telephone handset.

20 11. A device according to claim 5, wherein said device comprises an earphone and a body unit, the first contact surface being arranged on the earphone, the second contact surface being arranged on the body unit.

12. A health management system arranged to monitor a physiological condition of
25 an individual, said system comprising

- sensing means (65) arranged to detect a signal representative of said condition,

- analysis means (66) arranged to analyze said signal in order to derive a health-related parameter (66'),

30 - transmission means (64') actuatable by said analysis means, said transmission means being arranged to forward said parameter to a remotely arranged medical care provider (62'), said provider being arranged to process said parameter in order to derive a health condition of said individual, wherein

- said sensing means (65) comprise a portable electronic device arranged to be brought into a contact with an individual's skin when being used by said individual, said device comprising a first contact surface and a second contact surface, wherein the first contact surface comprises a first electrode and the second contact surface comprises a second electrode, said first electrode being electrically isolated from said second electrode; the device further comprising means for measuring an electrical signal from said first electrode and said second electrode during the usage of said device, said electrical signal being representative of a physiological condition of said individual.

10 13. A health management system according to claim 12, wherein the transmission means is arranged for transmitting said parameter by means of a wireless signal to a base unit arranged to enable a connection to the medical care provider by means of a communication network.

15 14. A health management system according to claim 12, wherein the device further comprises a user interface actuatable by the analysis means, said user interface being arranged to present said parameter to the individual.